

[STOP MOTION IMAGING DETECTION SYSTEM AND METHOD]

Abstract

A system and method implemented by the system controls a process acting on a moving object by providing a plurality of "stop-action" reference images of a feature of a reference object. The plurality of reference images represent a range of periodic process results relating to the feature at various process sample times.

While the process is acting on the moving object, a first image of a feature of the moving object at a first sample time is obtained, and the first image is compared to one or more of the plurality of reference images, which may represent various nominal and out of tolerance process conditions. From this comparison, the necessity for making a process adjustment of one or more process parameters of the process acting on the moving object is determined, and process control may be essentially effected in real time.